## Figure 5A

48	96	144	192	240	2 8 8	336	384
CCA Pro	HAHC HO	9 9 9 7 8	ტ მე დე √	CAC His 80	CAG Gln	GGA Gly	CTG
AHH HHG 12e	GTC Val	ACG Thr	AAA Lys	ACG Thr	G C C C C C C	AAG Lys	ATA Ile
GAA Glu	CCA Pro 30	ATA Ile	GTT Val	TAC Tyr	CAA Gln	CCA Pro 110	GCC Ala
GCC	HH HH 0	AAC Asn 45	CTC	AGC Ser	GCA Ala	TCT	120 120 130 130 130 130 130 130 130 130 130 13
TAT TYE	TAC	CHC	GACASP	ACG Thr	GAA Glu	CTT Val	O H H H H H H H H
CAG Gln	GCA	ტ ტეტ ტე	ATA Ile	664 614 75	GTA Val	GAG Glu	ATA Ile
CH Lec 10	AAG Lys	TTT Phe	ATT Ile	ATC	AGA Arg 90	TTC Phe	CCG Pro
AAC Asn	GAG G14 225	PC PC PC PC PC PC PC PC PC PC PC PC PC P	GAT ASD 60	ATA Ile	AGC Ser	CHC Let 105	GAC Asp
GG Gly Gly	ATA Ile	4 4 4 1 0 0	AAG Lys	GAG Glu	CTT	GAG Glu	11 12 12 10 10 10
CAC His	GTC Val	GAA Glu	04 040 000	ATA Ile	CC PCG PCG	GAA Glu	GCC Ala
TTT Phe	AAG Lys	GAA Glu	CTC	CTG Leu 70	CHC Lec	AAG Lys	CHC Leu
GTC Val 5	CCA Pro	AAALys	Phe	GACASP	27 86 52 52 52	GTT Val	GAG Glu
CHC	HA SHU OB OB	ATT 11e	AAG Lys	AGT	C F F C C	GAA G1u 100	CCA Pro
GCG Ala	GAA Glu	CTG Let 35	TTA	GCG Ala	CTC Leu	AGG Arg	011 1011 1013 1013
AGA	AGC Ser	ACA Thr	A T T T T O T O	HAT The	ATA Ile	GATASD	I G Trp
TTG Lea	AAG Lys	GAG Glu	TAT Tyr	69 65 65	GCA Ala	AGA Arg	TTC Phe

## Figure 5B

432	480	528	576	624	672	720	768
CTT Leu	1441 1461	AGC	TTT Phe	CCC Pro	CTT Leu	GAC Asp 240	GAC
ATG Met	CHC	ATC Ile 175	GTT Val	GTA	AGG Arg	AAG $LYS$	AGG Arg 255
GCG Ala	C P P C C C	TAC	CH CH CH CH CH CH CH CH CH CH CH CH CH C	GCC	GGA Gly	GAC Asp	TAT TYr
GAG Glu	AAA Lys	AGG Arg	AAG Lys	GAA G1u 205	ATC	GAG Glu	GGC Gly
666 612 744	AH HH HH	TTT Phe	ATA Ile	ATC IJe	6 6 6 7 7 7 7 7	ATA Ile	ATT Ile
GAC	C C C C C C C C C C C C C C C C C C C	CGC Arg	GCG Ala	GAC Asp	CHCLORIC	ПGG 71 235	TTC Phe
GCC Ala	AAG Lys	AAG Lys L70	AAG Lys	AAA Lys	ATG Met	AGC	GAG Glu 250
TTC Phe	ATA Ile	GAA Glu	AGG Arg 185	GTC Val	GTA Val	GCG Ala	ATA Ile
CTA	GCG Ala	AGG Arg	CTT	GCA 200	GCT Ala	GTG Val	GAT Asp
TAT Tyr	S O C C C C C C C C C C C C C C C C C C	CAA Gln	GAG Glu	AAG Lys	ACG Thr 215	AAA Lys	ACC Thr
GAG Glu	AAC Asn 150	GCC Ala	AGG Arg	CIA Leu	AAC	AAG Lys 230	GGC G1Y
1747 1351	CHC Lea	AAG Lys 165	CTC	ACG Thr	GTG Val	CCT Pro	114 124 127 13
GGT Gly	CATHIS	AH HH HH	667 617 180	GTA Val	GCC	AATAsn	CIA Leu
AAC Asn	GCTAla	CTT	CTT Leu	AAG Lys 195	GTG Val	ATG Met	CHI Leu
6AC Asb 130	TCA Ser	CAC His	CHC	GGT Gly	244 244 244 244	Lo Lo T	AH HH HH e
AAG Lys	1771 1470 1400	CCA Pro	TAT Tyr	GAA	GTT Val	24C 24C 50H 50	AAC Asn
	AG GAC AAC GGT TAT GAG TAT CTA TTC GCC GAC GGG GAG GCG ATG CTT 43 ys Asp Asn Gly Tyr Glu Tyr Leu Phe Ala Asp Gly Glu Ala Met Leu 130	AG GAC AAC GGT TAT GAG TAT CTA TTC GCC GAC GGG GAG GCG ATG CTT 43 130 Asn Gly Tyr Glu Tyr Leu Phe Ala Asp Gly Glu Ala Met Leu Tyr TC TC AAC TCG GCG ATA AAG CCA ATT AAA CCG CTC TAT 48 he Ser Ala His Leu Asn Ser Ala Ile Lys Pro Ile Lys Pro Ileu Tyr 150	AG GAC AAC GGT TAT GAG TAT CTA TTC GCC GAC GGG GAG GCG ATG CTT 43 130 and Gly Tyr Glu Tyr Leu Phe Ala Asp Gly Glu Ala Met Leu 48 TC TCA GCT CAT CTC AAC TCG GCG ATA AAG CCA ATT AAA CCG CTC TAT 48 he Ser Ala His Leu Asn Ser Ala Ile Lys Pro Ile Lys Pro Leu Tyr 150 CA CAC CTT ATA AAG GCC CAA AGG GAA AAG CGC TTT AGG TAC ATC AGC 52 CA CAC CTT ATA AAG GCC CAA AGG GAA AAG CGC TTT AGG TAC ATC AGC 52 co His 3Leu Ile Lys Ala Gln Arg Glu Lys Arg Phe Arg Tyr Ile Ser 165 co His 3Leu Ile Lys Ala Gln Arg Glu Lys Arg Phe Arg Tyr Ile Ser 175	AG GAC AAC GGT TAT GAG TAT CTA TTC GCC GAC GGG GAG GCG ATG CTT 43    130 Asn Gly Tyr Glu Tyr Leu Phe Ala Asp Gly Glu Ala Met Leu 48    TC TCA GCT CAT CTC AAC TCG GCG ATA AAG CCA ATT AAA CCG CTC TAT 48    TE TCA GCT CAT ATA AAG GCC CAA AGG GAA AAG CGC TTT AGG TAC ATC AGC 52    CA CAC CTT ATA AAG GCC CAA AGG GAA AAG CGC TTT AGG TAC ATC AGC 52    TO His 3Leu Ile Lys Ala Glu Arg Glu Lys Arg Phe Arg Tyr Ile Ser 176    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG AGG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG AGG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTC AGG GAG CTT AGG AAG AGG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTT AGG AAG AGG AAG AGG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTT AGG AGG CTT AGG AAG AGG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTT AGG AAG AGG AAG AGG ATA AAG CTC GTT TTT 57    AT CTC CTT GGT CTT AGG AAG AGG AAG AGG ATA AAG AAG	AG GAC AAC GGT TAT GAG TAT CTA TTC GCC GAC GGG GAG GCG ATG CTT 43 130 135 Glu Tyr Leu Phe Ala Asp Gly Glu Ala Met Leu Asp Asp Asp GCT CAT CTC ASC TCG GCG ATA AAG CCA ATT AAA CCG CTC TAT 48 55 Ala His Leu Asp Ser Ala Ile Lys Pro Ile Lys Pro Leu Tyr 150 Att CTC CTT ATA AAG GCC CAA AGG GAA AAG CGC TTT AGG TAC ATC AGG Ser Ala Ile Lys Ala Glu Lys Arg Phe Arg Tyr Ile Ser AT CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57 ATA CTC CTT GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GTT TTT 57 ATA GGT AAG GTA AAG GCA ATA AAG GTC AAA GGT AAG GTA AAG GTA AAG GTA AAG GCA AAG AAG	AG GAC AAC GGT TAT GAG TAT CTA TTC GCC GAC GGG GAG GCG ATG CTT 43 130 and Gly Tyr Glu Tyr Leu Phe Ala Asp Gly Glu Ala Met Leu Tys he ser Ala His Leu Asn Ser Ala Hie Lys Pro He Lys Pro Leu Tyr AG GCC CAA AGG GAA AAG CGC TTT AGG TAC ATC AGG GAA AGG GGA ATG AAG TYR HIE Ser 155 and 170 and 170 and 190 and 180 and	AG GAC AAC GGT TAT GAG TAT CTA TTC GCC GAC GGG GAG GCG ATG CTT TATG GLU TYL Leu Phe Ala Asp Gly Glu Ala Met Leu TATG GCT CAT TTC CAAC TCG GCG ATA AAG CCA ATT AAA CCG CTC TAT TATG GLU Lys Ala Glu Lys Arg Bro Ile Lys Pro Ile TYL TGG GAG GAG GAG AAG GCG TTT AGG TAC ATC AGC TAT TATG AAG GCC ATT AGG TAC ATC AGC TAT AGG TAC AGC TAC AGC TAT AGG TAC AGG TA

## Figure 5C

	816	864	912	096	1008	1056	1095
	GAC Asp	GGA Gly	TTG Leu	SAC 320 320	GCA 335	GCG Ala	:- ::
	ATA Ile	ATG Ser	AGC Ser	CTG Leu	GAT Asp	CGG Arg	
	GTT Val 270	CAC His	AAG Lys	ATG Met	AGC Ser	THC Phe 350	
	GAG Glu	AAG Lys 285	GAT Asp	AAT Asn	AAC Asn	GCC	TAG End 365
	TTA	CHG Let	CCA 300	CTT	GAG Glu	GAT Asp	CCT
	TTA	GAG Glu	GCA	AGA Arg 315	GCC Ala	CTG Leu	GAA Glu
!	GGA Gly	S & A A A A A A A A A A A A A A A A A A	HGG Hrb	GCA Ala	HHH HHH HHH	AGG Arg	GGG Gly
	GAG Glu 265	C C C C C C C	AGT Ser	AAC Asn	CTT Phe	AGG Arg 345	AAT Asn
	GTT Val	2LC 86H 80LH	S O O H	GGG Gly	GCC Ala	GAG Glu	GAA Glu 360
i	AGT Ser	TGC C√s	ACH SPR SPR SPR	GAA Glu	CHC Leu	CCT	GGT
	ATG Met	CTG Leu	CGG Arg	GAC Asp 310	GAA Glu	CTC Lea	AGG Arg
	AGA Arg	GAA Glu	TTA	GAG Glu	924 324 325	CC FC FO FO	TGG Trp
	777 777 280 280	S Ф В С В В	TAC Tyr	AGA Arg	AGG Arg	646 610 340	GAT Asp
	GGC	AAC Asn 275	CTC	H H H D H D H	ATG Met	TGG Trp	AAC Asn 355
	GCA Ala	CIC	646 610 290	ATA Ile	AATAsn	GGA Gly	TAT Tyr
	ATT Ile	GAG Glu	AGG Arg	340 340 305	TAC Tyr	AGGArg	ATA